Elevate Labs (Cyber-Security Internship)

Task 8: Identify and Remove Suspicious Browser Extensions

Objective: Understand the role of VPNs in protecting privacy and secure communication.

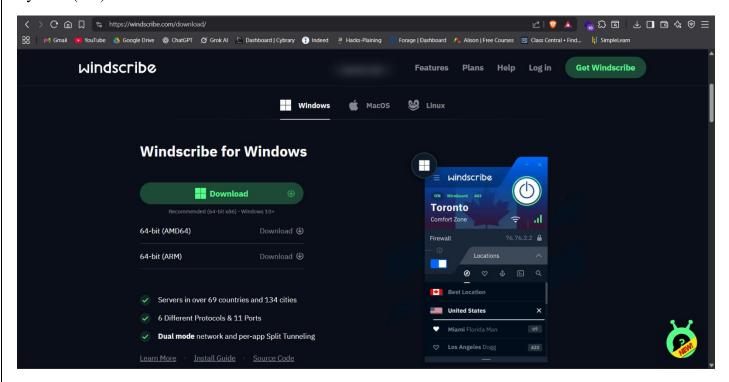
Tools: Free VPN client (ProtonVPN free tier, Windscribe free)

Deliverables: Report describing VPN setup steps and connection status screenshot.

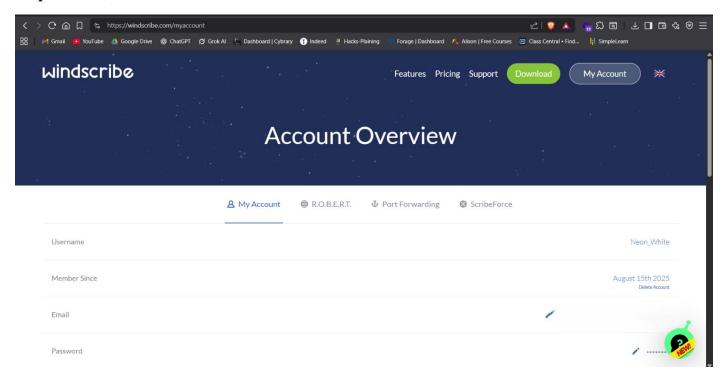
Report:

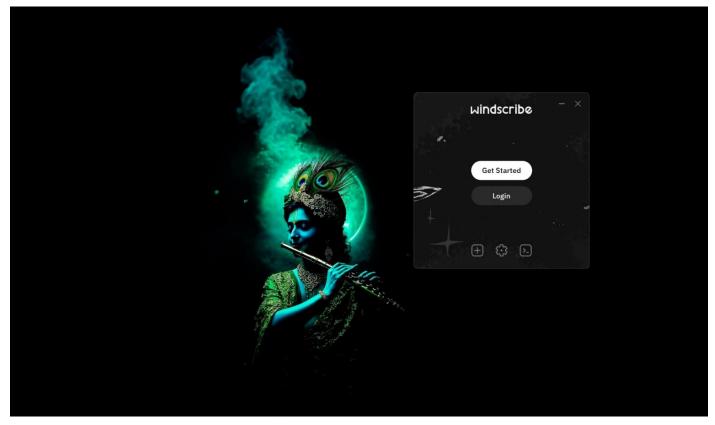
- Windscribe VPN (Virtual Private Network):

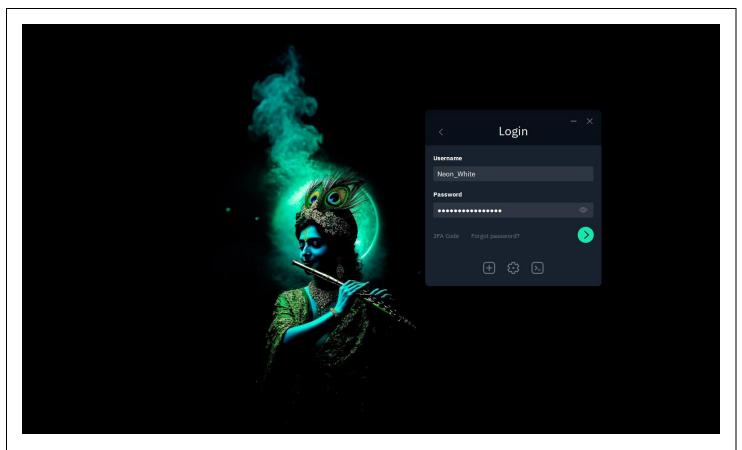
Step 1: Download Windscribe VPN from official website for FREE, based on your Operating-System (OS).



Step 2: Now, we will SET-UP an Account for Windscrive VPN.



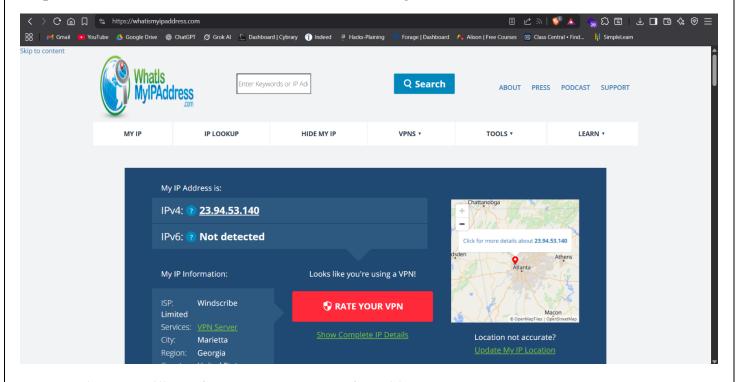




Step 3: Now, we will CHOOSE any Location to set-up a Virtual Private Network.



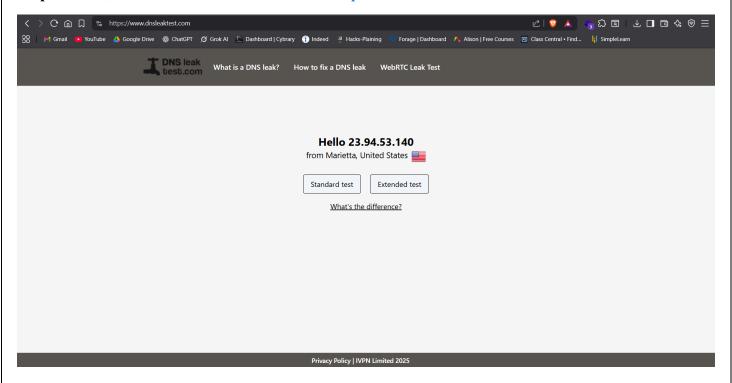
Step 4: Then we will, CHECK that our VPN is Working or NOT.



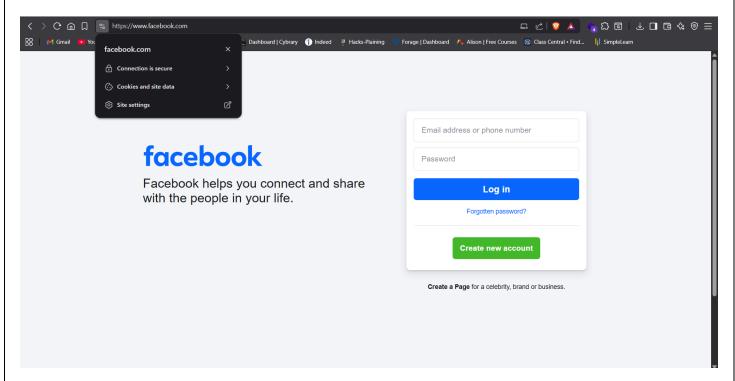
Step 5: Then we will, Perform SPEED-TEST of Working VPN.

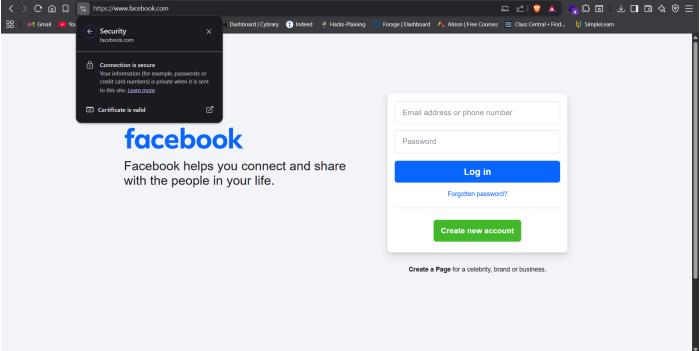


Step 6: Then, Perform DNS-Leak Test from: https://www.dnsleaktest.com

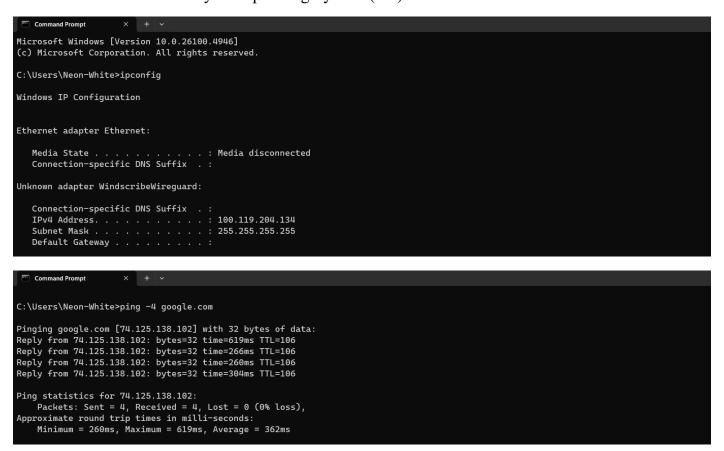


Step 7: At-Last, we will CHECK that Virtual Private Network uses (HTTPS) Secure Protocol for Network Traffic.

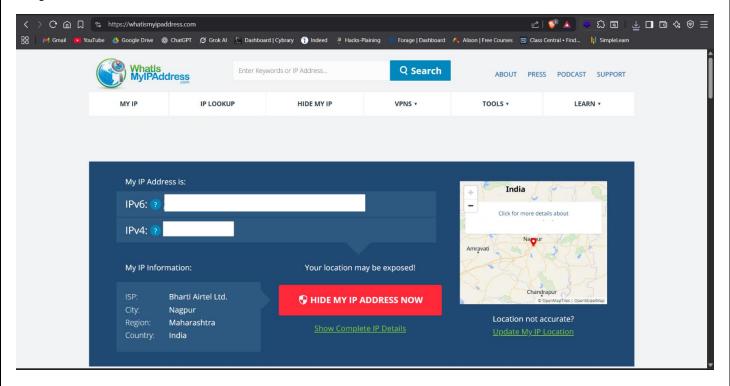




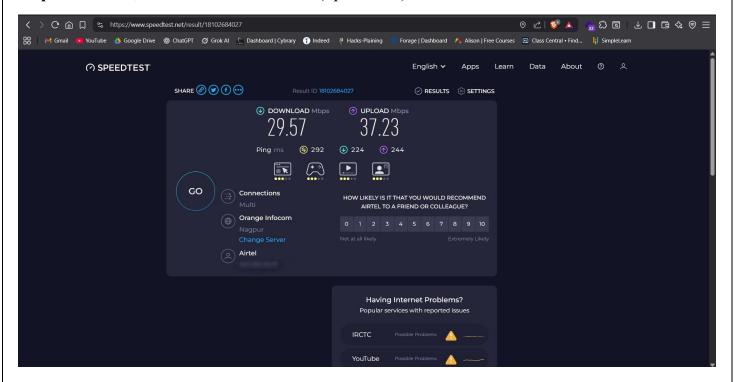
Step 8: (Optional), we can CHECK (VPN – Virtual Private Network) Configurations through CLI – Command Line based on your Operating System (OS).



Step 9: Now, we will OFF the Windscribe VPN & Check out IP-Address.



Step 10: At-Last, now we will PERFORM (Speed-Test) while VPN is OFF.



Benefits

- IP masking & location privacy (sites see VPN exit IP, not your home IP).
- Encryption on untrusted networks (e.g., public Wi-Fi) between you and the VPN server.
- Bypass local blocking/geo-restrictions in some cases.
- Throttling avoidance (sometimes) if ISP throttles certain categories.

Limitations

- Trust shift: You must trust the VPN provider more than your ISP/local network.
- Not a magic cloak: Browser logins, cookies, and fingerprinting can still identify you.
- **Performance overhead**: Added latency; possible speed reduction, especially on distant servers.
- **Geo-services and streaming** may block known VPN IP ranges.
- Legal/Policy constraints: Some regions restrict VPN use—know your local laws and terms.